Summary of the Twenty-Sixth Meeting  
Special Committee 216  
Aeronautical Systems Security

DATE: May 3-5, 2016

PLACE: RTCA, Inc.  
1150 18th Street, NW, Suite 910  
Washington, DC 20036

The Committee wishes to thank RTCA for hosting this meeting.

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ATTENDEES:

SC-216 Co-Chairs  
Daniel Johnson Honeywell International, Inc.  
David Pierce GE Aviation

SC-216 Secretary  
Derek Schatz Boeing Commercial Airplanes

Designated Federal Official:  
Varun Khanna Federal Aviation Administration (FAA)

Members attended:  
Steven Bates Panasonic Avionics  
Larry Hannert LCH Engineering  
Mark Kelley Esterline AVISTA  
Xiaogong Lee FAA (WJH Technical Center)  
Michel Messerschmidt Airbus  
Joe Morrissey The MITRE Corporation  
Patrick Morissey Rockwell-Collins  
Siobvan Nyikos Boeing Commercial Airplanes  
Mitchell Trope Garmin  
Phil Watson Panasonic Avionics  
Brian Zelley The MITRE Corporation
Members attended by phone:

- Serge Barbagelata  
  Airbus Helicopters
- Craig Belling  
  UPS
- Claudio Castro  
  Embraer
- Stéphane Chopart  
  Airbus Helicopters
- John Flores  
  FAA
- Michael Hooper  
  Iridium
- Andrew Kornecki  
  Embry-Riddle
- Marcus Labay  
  FAA
- Wendy Ljungren  
  GE Aviation
- Al Morris  
  U.S. Army
- Vic Patel  
  FAA
- Daniel Patrick  
  Embraer
- Jason Posniak  
  Pratt & Whitney
- Marc Ronell  
  FAA
- Chuck Royalty  
  Aerospace Systems Cyber Security
- Shohreh Safarian  
  FAA

Observer attended:

- Dinkar Mokadam  
  Association of Flight Attendants

In accordance with the Federal Advisory Committee Act, Varun Khanna, Federal Aviation Administration (FAA), was the Designated Federal Official.

This was the first meeting of the re-started Special Committee 216 (SC-216) since completion of its original TOR deliverables: DO-326A, DO-355, and DO-356. The committee had worked in concert with EUROCAE WG-72 to produce harmonized documents, but was unable to achieve a harmonized version of DO-356 / ED-203 “Airworthiness Security Methods and Considerations” in the allotted time. Starting in late 2015, RTCA’s Aviation Rulemaking Advisory Committee (ARAC) convened the Aeronautical Systems Information Security Protection (ASISP) Working Group to study the issues and recommend a path forward. The primary objective recommended was to focus on producing a new harmonized version of the methods document.

This meeting consisted of both plenary and working sessions.

The outline for this meeting summary is organized around the published agenda. SC-216 presentations and documents can be found on the corresponding RTCA Workspace website (http://workspace.rtca.org/apps/org/workgroup/sc-216/documents.php). Please contact the Program Director for access to the site.

Details of document edits are generally incorporated by reference in this summary. The agenda was published in advance of the meeting, and is available from the RTCA website.
**Meeting Summary**

**Day 1**

*Plenary*

Dan Johnson, co-chair, kicked off the meeting and introductions were made again around the room and on the phone.

Varun Khanna presented the FAA’s position as the DFO. Group should stay aligned with the ARAC report, with WG-72, and with Part 23 and GA guidance. Aim for a 90% solution. He then read the official public opening statement.

Karan Hofmann of RTCA has taken over Program Director duties from Hal Moses. The group thanks Hal again for his excellent support over the years and welcomes Karan. The RTCA Proprietary References Policy was read. Participation in Special Committee work is limited to RTCA members only, while plenary sessions are open.

The new Terms of Reference (TOR) was discussed by Dave Pierce. Two goals: be informed by the ARAC final report, and solve the 10 identified harmonization topics.

Dan led a discussion of the 10 harmonization topics.

Michel Messerschmidt provided an overview of WG-72’s activities to date, and status of its documents. He noted that there are still many terms that lack common definitions between the two sides – one reason for misunderstandings. Current docs in work:

- ER-013 EUROCAE Glossary
- ED-201 Aeronautical Information System Security Framework Guidance
- ED-203A Airworthiness Security Methods and Considerations
- ED-205 Security Accreditation of ATM Systems

Dan provided an overview of DO-326A and DO-356. Similarities with a Particular Risk Analysis (PRA) were again noted. Key DO-356 topics to be expanded: Security Assurance, Security Effectiveness, and Risk Acceptability.

Dave presented the SC-216 Structure and Organization of Work, and reviewed the schedule. The Final Review and Comment (FRAC) period for DO-356A is targeted for July 2017, with PMC review and publication in December 2017. The TOR specifies December 2017 for completion of the document. Next meeting will be in June.

After lunch, the group reviewed the 10 work areas in more depth. There was much discussion on the issue of logging. A subgroup will develop a position paper defining the objectives for additional guidance in this area. People were assigned to work some of the remaining ARAC items.

Michel gave a high-level review of the contents of ED-203.
Day 2  
Working group session  
The session began with a joint telecon with members of WG-72. Jean-Paul Moreaux of EASA and Stefan Schwindt of GE Aviation (UK) joined.

Groups reviewed the 10 work areas. Discussed the joint schedule. Many members indicated support for not just a single consensus method, but instead include multiple methods that achieve the same results (all acceptable means of compliance (MOC)). Groups began identifying potential areas of disagreement (see spreadsheet “ghstatus.xlsm” for details).

After lunch, groups began discussing Risk Acceptability. Continuing disagreement on what are the necessary inputs to make the RA determination. Need to clarify definition of “Security Effectiveness”. Michel discussed the RA material developed for WG-72, noting the potential for confusion between “likelihood” and “probability” as some languages have only one translation for both. Regulators have indicated, however, that trying to accurately estimate likelihoods of attack is not possible to do with sufficient fidelity for our purposes, and that another approach should be used.

Day 3  
Working group session  
Dan Johnson was out sick; Dave Pierce ran the meeting.

Group started discussing the role of trust in the security environment. Question raised of what constitutes “network connections readily available to passengers”, but others thought this was already clear and did not need more guidance.

Discussion about creation of a checklist for external agreements. ED-201 mentions this. 
ACTION: Patrick Morrissey will write a paragraph about what might go into DO-356 on this topic.

Business completed, the meeting was adjourned by late morning.

/s/  
Derek Schatz  
Secretary, SC-216  
CERTIFIED as a true and accurate summary of the meeting

/s/  
David Pierce  
Co-Chairman, SC-216

/s/  
Daniel Johnson  
Co-Chairman, SC-216